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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,513	02/28/2000	Joseph Chappell	07678/011003	8901

21559 7590 06/16/2004

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EXAMINER
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KALLIS, RUSSELL

ART UNIT	PAPER NUMBER
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1638

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Advisory Action</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/514,513	CHAPPELL ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Russell Kallis	1638	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

THE REPLY FILED 11 May 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY** [check either a) or b)]

- a)  The period for reply expires 3 months from the mailing date of the final rejection.
- b)  The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1.  A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2.  The proposed amendment(s) will not be entered because:
  - (a)  they raise new issues that would require further consideration and/or search (see NOTE below);
  - (b)  they raise the issue of new matter (see Note below);
  - (c)  they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
  - (d)  they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_.

3.  Applicant's reply has overcome the following rejection(s): See Continuation Sheet.
4.  Newly proposed or amended claim(s) 3 and 12 would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5.  The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6.  The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7.  For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: 3 and 12.

Claim(s) objected to: \_\_\_\_.

Claim(s) rejected: 1,2,4-11 and 13-15.

Claim(s) withdrawn from consideration: \_\_\_\_.

8.  The drawing correction filed on \_\_\_\_ is a) approved or b) disapproved by the Examiner.
9.  Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_.
10.  Other: \_\_\_\_.

Continuation of 3. Applicant's reply has overcome the following rejection(s): 112 1st written description and enablement over claims 3 and 12, because the claims have been amended as independent claims and are limited to what is taught in the examples of the specification (response pages 6-7; enablement).

Continuation of 5. does NOT place the application in condition for allowance because: The rejection under 35 USC 112 1st paragraph, written description, that the specification does not support a written description of the relevant identifying characters of the broadly claimed genus of all nucleic acid molecules encoding chimeric isoprenoid synthase polypeptides that catalyze the production of an isoprenoid reaction product not normally produced is maintained for reasons of record.

Further, the rejection under 35 USC 112 1<sup>st</sup> paragraph, lack of enablement, because, given the unpredictability in the art at the time of the effective filing date, the specification does not provide adequate guidance for the full scope of the claims, one of skill in the art would be required to practice undue trial and error experimentation to find an operable embodiment of any one of the non-exemplified chimeric isoprenoid synthases that catalyze the production of an isoprenoid reaction product not normally produced is maintained for reasons of record.



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